**Exploring Tape Diagrams**

Tape diagrams are models designed to help students demonstrate their mathematical reasoning and gain a deeper understanding of the content. Our next step is to dig a little deeper.

Each table will be given an envelope with 5 problems that require students to use modeling. Each group member will select a single question from the envelope.

**Step #1:** Model and solve your question

**Step #2:** Share your thinking with a partner

**Step #3:**  Imagining you are in front of a classroom of students. Model your thinking to guide your

“students” through the Read, Draw, Write (RDW) process. Each group member will assume

the role of teacher for their selected question.

**Step #4:** After each group member is done assuming the role of teacher, place the questions in order

of grade level.

**RDW or Read, Draw, Write (a Number Sentence and a Statement)**

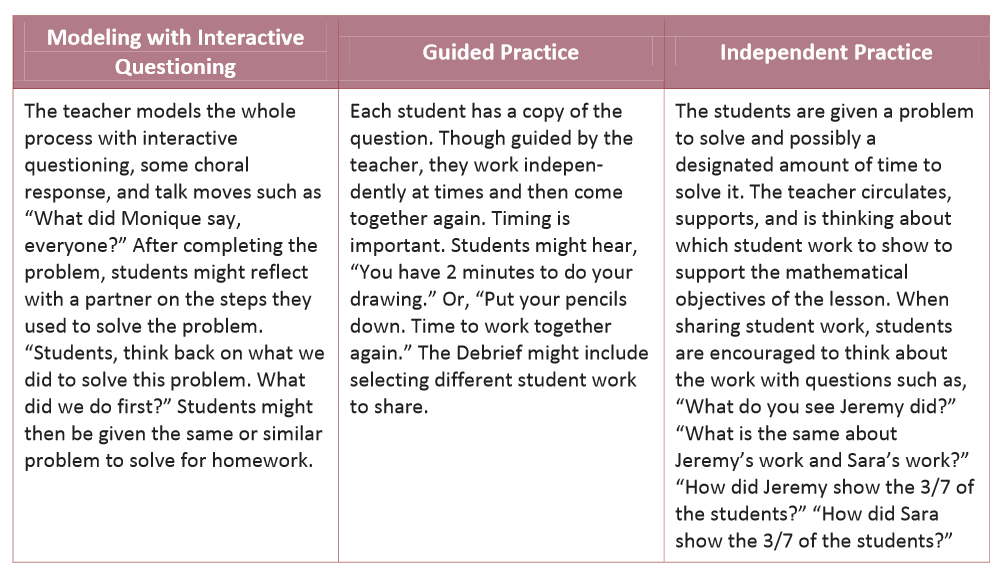
Mathematicians and teachers suggest a simple process applicable to all grades:

1. Read
2. Draw and Label
3. Write a number sentence (equation)

4) Write a word sentence (statement)

The more students participate in reasoning through problems with a systematic approach, the more they internalize those behaviors and thought processes.

* What do I see?
* Can I draw something?
* What conclusions can I make from my drawing?



**Extension:**

Using the problem you selected from the envelope, construct an additional question that could be answered using your model.